

**PATENT**  
**DON01 P-933**  
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**VEHICLE HEADLIGHT CONTROL USING IMAGING SENSOR**

**ABSTRACT OF THE DISCLOSURE**

A headlamp control system for a motor vehicle includes an imaging array sensor operable to sense light in a field of view forward of the motor vehicle and a control that is responsive to the imaging array sensor. The control is operable to identify at least one object of interest in the field of view by a spectral signature and/or a geometric organization of the object. The control is operable to control a headlamp of the motor vehicle in response to identifying the object as being at least one of a headlamp of another vehicle, a taillight of another vehicle, a traffic sign, a lane marker and a traffic light. The control may be operable to identify a headlamp and/or taillight of another vehicle in response to light sensed by the imaging array sensor during different exposure periods of the imaging array sensor.